

## What is claimed

1. A projector apparatus comprising:
    - a housing;
    - a light source apparatus arranged in said housing;
    - an image forming element which receives light from said light source
  - 5 apparatus and forms an image for projection;
    - a plate fixed to said housing; and
    - an image forming optical system including a reflecting mirror attached
  - to said plate through a holding member,
  - wherein the material of said reflecting mirror and the materials of said
  - 10 holding member have approximately equal coefficients of linear expansion.
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2. The projector apparatus according to claim 1, wherein the material of said plate have low coefficients of linear expansion.
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3. A projector apparatus comprising:
    - a housing;
    - a light source apparatus arranged in said housing;
    - an image forming element which deflect light diverged from said light
  - 5 source apparatus;
    - a plate fixed to said housing;
    - an image forming optical system including a reflecting mirror attached
  - to said plate through a holding member; and
  - sliding means that relieves an excessive force acting on a contact
  - 10 point between said plate and said housing by generating a slide between

said plate and said housing.

4. The projector apparatus according to claim 3, wherein said sliding means is a bush made of an elastic material that is interposed at said contact point, couples said plate to said housing, and permits a displacement of said plate due to an excessive force acting on said contact point.

5. The projector apparatus according to claim 3, wherein said sliding means includes a magnet provided in said plate, and a steel plate provided in said housing and attracted by said magnet, and permits a displacement of said plate due to a force acting on said contact point larger than a frictional resistance due to the attractive force of said magnet.

6. The projector apparatus according to claim 3, wherein said sliding means is a spring that couples said plate to said housing by pressing said plate against said housing, and permits a displacement of said plate due to an excessive force acting on said contact point.

7. The projector apparatus according to claim 3, wherein said sliding means is said holding member that expands in a direction opposite to an expansion direction of said plate by a quantity approximately equal to the expansion quantity of said plate when the temperature changes.

8. The projector apparatus according to claim 3, wherein said sliding means includes a pin that is provided on said housing and extends in the

same direction as said plate expands when the temperature rises, and a hole that is provided on said plate, said plate being attached to said housing

5 by inserting said pin into said hole.